

TECHNIQUES FOR PERMITTING ACCESS ACROSS A
CONTEXT BARRIER ON A SMALL FOOTPRINT DEVICE
USING RUN TIME ENVIRONMENT PRIVILEGES

Abstract of the Disclosure

A small footprint device can securely run multiple programs from unrelated vendors by the inclusion of a context barrier isolating the execution of the programs. The context barrier performs security checks to see that principal and object are within the same namespace or memory space and to see that a requested action is appropriate for an object to be operated upon. Each program or set of programs runs in a separate context, however, one context has access to all program modules without context barrier constraints.